

ROADSTAR LETTER

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“...before we Internet surfers cry foul over the censors, maybe we should try acting more responsibly...”

see page two

More SuperCPU Notes



By Jeff Jones. The SuperCPU has been plugged into many LOADSTAR computers in the past months. It's sort of anti-climactic to report that there is little to report. The cartridge makes everything run faster. Works like a breeze. I know that I hate to give CMD non-reports when they're actively looking for bugs to squash, but under normal use, the accelerator

seems rock solid.

Our version of the accelerator won't work with GEOS yet, but I've read in newsletters that others have had the time to patch it using the information supplied by CMD, and that GEOS screams. They reported spell-checking a document in 11 seconds. Doing anything in GEOS in 11 seconds is revolutionary.

I've long hated the way TWS and SpeedScript scroll and show you every word they change when you use a search and replace. Know what I mean? You want to change every instance of

[quote][period] to [period] quote]. Well SpeedScript and TWS will show to every instance of a change before it makes it. So a process that might take two seconds might take 30 seconds on a large file because it must scroll all the way through it. Well, today I watched TWS fly through changes in a large text file that would have normally taken a while to process. Now, even with the scroll, The changes in a 30K file take an instant. the screen races by in a blur.

The only real trouble we had was with a 128D that had a hard time reading its RETURN key with the accelerator enabled. We called CMD and it's fixed

(Continued on page 3)

Anatomy Of An Internet Site

by Rick Nash, C-64
programmer and ML teacher
extraordinaire. Jeff's
foreword: Rick first came to
LOADSTAR in 1988 with X-
ref, a BASIC cross-
referencing utility. Since then
he's written a long list of
programs, languages,

debuggers, articles and is most remembered for his ML tutorial series, ML 101 through ML 401, published on LOADSTAR, and in the Compleat programmer. Rick has been programming 6510 code, both for the C-64 and for wheelchair controller apparatus.

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A Few Words On Internet Free Speech

Yesterday a Philadelphia Federal court struck a blow to the Communications Decency Act, otherwise known as the smut Bill. All around the net people are cheering the ruling. Here's what a few other people had to say about net censorship.

Bill Gates: The Internet is the first medium that allows anyone with reasonably inexpensive equipment to publish to a wide audience.

Rose Stasuk: The Internet is the one place that I can self-publish without the art market infrastructure's help.

Philippe Kahn: For

Centuries our people have been the victims of intolerance. The price of our freedom is the burden of having to accept the worst in public expression. For he who starts censorship will never know where and when to stop.

Phillip Suh: I never met my other grandfather. He was a preacher in North Korea. The communists thought he was saying something indecent, bad for the public health. So one day they came and bound him and his oldest son and blindfolded them and stood

them by a ditch, so that when they shot my grandfather they wouldn't have to bother with carrying him into a grave.

Caleb John Clark: We're the hippies of the nineties, man! Technology is our drug, money our sex. Our "free love" is "global communication". Like the hippies, we've got the right message, but the public sees us as a group of totally irresponsible freaks ranting and raving. Source: <http://www.eff.org/blueribbon.html> Highly recommended.



Decency Act, No. Decency, Yes!



By Jeff Jones. Maybe there is hope for us yet. Bad law has been written by people seeking to appear holy,

and signed by a President who was afraid to say no to bad law because it might *appear* that he was saying yes to obscenity. Luckily the courts have limited power to block the birthing pains of re-election — *bad law*. Every two- four- and six-year cycle, our representatives, in spectacular testosterone fests, try to prove to us that they are:

first, holier than the opposition, second, for law & order, and third, *protecting our children*. You couldn't have a decent witch hunt without *that* chant.

Most bad law is written in the name of protecting children. Every election our representatives write tougher laws. America is so "decent" now that we have more people in jail than any other nation in the world. In Shreveport we recently opened a jail that was *full* before it opened. We have a clogged justice system precisely because we round up people by the millions and toss hundreds of thousands into jails and

throw away the key. Trouble is, we don't do that to murderers, robbers and rapists. Yet we have "wars" against "sick" (naughty) people who don't know any better. We'll write tougher laws for them than murderers. We'll limit our *own* rights to make it easier to get *them*. No parole. Give *them* pre-determined mandatory sentences. Meanwhile predators like murderer of Polly Claas enjoy the parole system which *should* be used for the *non-violent* offenders we're locking up like mad.

To make a point I just
(Continued on page 4)

Anatomy Continued...

(Continued from page 1) for a decade now. Rick is a true veteran, and, frankly, knows everything. He's my idea of a guru. Here's Rick's less-than-pleasurable adventure in telecommunications:

I had this silly idea that I wanted to start an Internet company in our small town, Millersburg Ohio. If you've been thinking of starting an Internet provider service, I'd say go for it, but be ready for delays and problems that aren't

your fault. Over estimate the cost and the time for everything you do, and everything will work out.

I told myself in the beginning that I had run a bulletin board for more than five years, how hard could it be? What followed was a whirlwind course in wide area networking. I guessed that the most expensive cost would be the pipeline to the Internet, and I was right. Initially I thought that a 56K data line would be

sufficient. However, it turns out that 56k equipment is not upgradable. If our requirements grew, we'd be stuck with hardware that'd be useless. Next I looked into a T1 data line. Now we're cooking! more than 24 times as fast as a 56k line, but what a cost! It turns out that a T1 line consists of twenty-four 64K channels. The phone company will sell less than a full T1, usually in pairs of 64K

(Continued on page 3)

Q: Why do programmers always get Christmas ornaments with holes in them?
A: Because DEC 25 = OCT 31

Q: Did you hear about the Microsoft crystal ball?

A: Ask it something and it replies "Answer unclear. Add 20 Megs of RAM and ask again later."

Q: How many MS engineers does it take to screw in a light bulb?

A: None, they just define darkness as an industry standard.

Q: What do you get when you cross 240K of paper and lots of garbage?

A: A core dump

Have you heard about the new Cray? It's so fast, it executes an infinite loop in 8 seconds.

Have you heard about the new Cray? It's so fast, it requires TWENTY halt instructions to stop it.

Imagine that Cray computer decides to design a personal computer. It has a 150 MHz processor, 256 megabytes of RAM, 1512 megabytes of disk storage, a screen resolution of 1024x1024 pixels, relies entirely on voice recognition for input, fits in your shirt pocket, and costs \$300.

What's the first question that the computer community asks?

Is it PC compatible?

SuperCPU Continued..

(Continued from page 1)
already.

I also had a hard time converting a file from PetASCII to Screen code in TWS. Apparently I can't release the CRTL-A fast enough. It thinks I want to convert ASCII. If I had a half second to release the key before, now I have 1/40th, and I just can't do it. Fortunately I can switch back to 1 MHz mode at will. I can't stress how wonderful that is. On my Amiga, switching between 40 MHZ and 7 MHZ invokes an absolute mandatory crash. Turbomaster 4 MHZ accelerator for the C-64 is the same way. Instant crash.

While I worked on a game called Fastball (which appears on the next LOADSTAR), I noticed that this arcade game worked perfectly in both modes. This program uses interrupt based timing. It was probably written way before the SuperCPU was announced. When you follow rules, you avoid the consequences. My ball wasn't zinging 20 times too fast from left to right.

I would suggest using interrupt-driven sprite moving tools software based timing in BASIC or ML can lead to games that run too fast.

I also accept full credit for the concept of the SuperCPU. I remember suggesting it to CMD way back around 3 years ago when we first discussed them advertising in the LOADSTAR Letter. They said back then that it'd be too expensive and no one would buy it. The fact that LOADSTAR is still here, and that CMD is still here, means that you people out there are indeed *buying*.

Anatomy continued...

(Continued from page 2)
channels. This is called a fractional T1. After pricing the fractional T1 (2 channels, or 128K) I decided that the whole idea had some possibilities. I set out to discover what was required to create an Internet site from scratch. It turns out that there are only four major components to a site.

1. A computer that acts as our server.
2. A Router to connect our customers to the

server.

3. A DSU/CSU to connect the router to the T1 (and ultimately the Internet).
4. Modems for customers to dial in on.

This took a while to figure out! Now it seems so simple, but back then it was all magic. Each item must be correct, or the whole thing falls apart. I decided on a Pentium 133 MHz computer with 4 GB of hard disk space and 32 Mb RAM. Pretty lame for a server I know, but an OK starter

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machine!

I settled on UNIX software. Most of the net runs on UNIX, so why buck the system? Next came the router. This is easily the most complex device I've ever used! It determines the path for network traffic.

Next I had to decide how to connect the modems to the computer. I could install multiport serial cards in the server. Or, I could combine the modem

(Continued on page 4)

Different Kinds Of Computer Viruses

Adam and Eve virus Takes a couple of bytes out of your Apple

Aliens virus You're in Deja, but your data is in Singapore

Amiga Hill virus Lies dormant for ten years

Apple Software bug virus Remembers and stays resident in the ROM

AT&T virus Every three minutes it tells you what exact service you are getting

The McVirus Every three minutes it reminds you that you're saving too much for the AT&T virus

Congestion Virus Every few hours your computer

Congestion Virus The computer locks up, screen spills statically with a message showing on each half showing the other side for the problem

Don Quixote virus Gives you a sense of the too every word you type

David Duke virus Makes your screen completely white

Feeblefeble bug virus Divides your hard disk into hundreds of little units, each of which is creatively nothing, but claim to be the most important part of the computer

Freudien virus Your computer becomes possessed with its own mother and

3

Decency continued...

broke my own rule and watched an R-rated movie, *Within The Rock*, on the Sci-Fi Channel. Since the Sci-Fi channel shows pasteurized, processed "TV-edited" movies with all the gore, sex and cursing censored, key parts of the movie were gone. Any important exposition that involved an expletive was either riddled with stoppages of sound or just not there. I didn't get to see some key characters expire, and the the monster's death was just plain hacked out. Essentially they took a bad movie and made it worse.

This is why I never watch a TV-edited silver-screen movie on a network while I will watch a movie that was made for TV. It's not the lack of vulgarity that I'm missing, it's the story! A censored movie is incomplete. A censored Internet will be just as incomplete, confusing and even troubling. Censorship does that to things.

The Smut Bill was another law that included mandatory penalties, taking away the power of judges to decide who should go to jail and for how long. For moments, we had another

mandatory sentence for being non-violently naughty on your computer, but still few mandatory sentences for the mayhem we all fear!

So when the Senate debated and passed the smut bill, I said. "Here they go, protecting us from naughty couch potatoes who will never harm us."

I've seen the worst that freedom of speech has to offer. Smut is on the net in 16 million colors. The nude photos? Most are illegally scanned from porn magazines, a practice which should be limited by law.

There's mail bombing and vulgar visceral reactions all over. What's a mail bomb? It's when you Email one unfortunate person a barrage of multi-megabyte files, which can ruin all mail for all people sharing that service.

This is the land of the free. I'm all for freedom, but before we surfers cry foul, maybe we should try acting more responsibly, like we do in the real public. The anonymous "nice" PTA-

Anatomy Conclusion

ports with the router (this is typically called an access server). An access server has the advantage of not slowing down your server. But on the down side access servers are pricey. We decided on the access server, and so far I think it was a good choice.

Next we needed modems. Boy they look at you weird at Sam's when you purchase 11 modems! Last but not least were the phone lines. We have 12 lines so far, but the phone

company hedged their bets by installing a 50-line cable to our location. The engineer at said it cost the phone company over \$16,000 to run the cable from town to our site! We should be all set for phone lines for a while....

Finally we're waiting for the feed to appear on our \$600+/month T1. Looks like any day now. Things are busy as you could imagine. Obtaining software to provide your customers merchant

Centsible Systems Grand Re-opening!

We have outgrown our present facility and will be moving to a much larger location as of June 1, 1996. I would personally like to thank Commodore users from all over the country for contributing to the success and growth of Centsible Systems.

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attending yuppies who are so vulgar online — the anonymous CEOs and celebrities who, despite copyright laws, upload scanned images to newsgroups, will one day come rue their frenzy of anarchy. A simple search for "Loadstar@softdisk.com" will pop up every post I've made on the net so I'm not going to upload nudie pics or post vulgarity! When Internet addresses stick like a social security number (and they will), there will be plenty of embarrassed people out there.

Gallup virus: Sixty percent of the PCs infected will lose 35 percent of their data 14 percent of the time (value of minus a 3.5 percent margin of error).

Government economist virus: Nothing works, but all your spreadsheet software says everything is fine.

New World Order virus: It's really harmless, but it makes a lot of people really mad just thinking about it.

Nike virus: Just Does It

Office North virus: Turns your Microsoft Word document into a dead tree.

Pat Buchanan virus: Shifts all your output to the extreme right of your screen.

Paul Revere virus: This revolutionary virus does not necessarily spread. It warns you of impending hard disk attack — once it's by LAN, twice it's by C...

PSS virus: Your PC stops every few minutes to ask for money.

Politically correct virus: Never calls itself a "virus", but instead refers to itself as an "electronic microorganism".



List Of Commodore Repair Facilities

I gleaned this from Jim Brain's Comp.SYS.CBM General FAQ on the Internet. This information is maintained by Jim Brain (brain@mail.msen.com). It is composed of information gleaned from articles in the USENET newsgroup comp.sys.cbm, the FidoNET echoes CBM and CBM-128, electronic mail messages, World Wide Web pages, and other mediums. The suppliers listed are assumed to be operating, but none have been confirmed.

A&M Computer Repair
24 Conklin Drive
Stoney Point, NY 10980
(800) 344-4102 (Orders)
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(800) 248-2983 (Information)
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Commodore Connection
127 North Santa Fe Avenue #C
Vista, CA 92804-5401
(619) 945-8777 (Information/Orders)
Michael Hendon (Contact)
General repair.

Capestan Computer Repair
P.O. Box 733
Seabrook, TX 77586
Philip Capestan (Contact)
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Bear Computer Repair Inc.
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cmd-doug@genie.geis.com (Contact)
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+ (304) 697-0110 (Bulletin Board System)

+ Computer Bargain Store
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+ 3366 South 2300 East
+ Salt Lake City, Utah 84109
+ (801) 466-8084 (Orders and Information)
+ (801) 466-9128 (Facsimile)
+ slick_rk@xmission.com (Contact)

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+ Canada
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+ buys, sells & repairs Commodore hardware & software

--
Jim Brain, Embedded System Designer, Brain Innovations, Inc. (BII)(offline sig)
brain@mail.msen.com "Above views DO reflect my employer, since I'm my employer"
Dabbling in WWW, Embedded Systems, VR,
Old CBM computers, and Good Times! -Me
 Jim Brain: BII, VR, and CBM Info

This screen
(intentionally left
blank.)

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backups to new disk.
To make you need
that version.

My sister gave us an
Computer Board
other than we know
we have
manufactured a
and a game.

The 8-bit joke
The single you have
in the box
the fixed one
and you have started
in the wrong box.

The program is
absolutely right
therefore the
computer must be
wrong.

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nearly ever 1.0.

All computer board at
the same
speed...with the
power off.

Any given program
will execute to fill
available memory.

Any virus can
understand
computers. Many
etc. - Ted Nelson

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runs right is obsolete.

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advanced bug is
indistinguishable from
a feature. - K. L. C.

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JiffyDOS

(Specify computer serial number and drive model)

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C-64, C-64C HD Power Supply (Repairable)	\$56.95
C-128 Computer (Refurb, w/JD)	\$179.00
C-128 Computer (Refurb, w/JD, no PS)	\$129.00
C-128 Power Supply (Repairable)	\$56.95
Cannon BJC-4100 Color Bubble Jet Printer	\$399.00
Commodore 1541 Disk Drives (Refurb, w/JD)	\$89.00
Commodore 1541-II Disk Drive (Refurb, w/JD)	\$109.00
Commodore 1571 Disk Drive (Refurb, w/JD)	\$119.00
Commodore 1702 40-column Monitor (Refurb)	\$109.00
Commodore 1802 40-column Monitor (Refurb)	\$139.00
Commodore SX-64 Computer (Refurb, w/JD)	\$199.00
CMD EX2+1 3-Port Cartridge Port Expander	\$34.95
CMD EX3 3-Port Cartridge Port Expander	\$29.95
CMD Gamepad/Joystick Controller	\$24.95
CMD GeoCable II Print Cable 6ft./15ft.	\$29.00/\$34.00
CMD SmartMouse (1351 Compatible Mouse)	\$49.95
CMD SmartTrack (1351 Compatible Trackball)	\$69.95
Inkwell Light Pen Model 170C	\$75.00
Monitor Cables	CALL
Mouse Ped	\$2.95
MW-350 Printer Interface (2K/8K Buffer)	\$49.00/\$60.00
Penasonic KXP-1150 9-pin Printer	\$169.00
Panasonic KXP-2023 24-pin Printer	\$229.00
Panasonic KXP-2135 24-pin Color Printer	\$319.00

Utilities

Big Blue Reader V4.10 (SOGWAP)	\$39.00
CMD Utilities	\$24.95
JiffyMON-64 (ML Monitor)	\$19.95
The Compression Kit '94 (Mad Man)	\$39.00

GEOS

Collette Utilities (Handy Geos Utilities)	\$19.95
Desk Pack Plus	\$29.00
Dweezil's Greatest Hits (NewTools2,Stamp,Label128)	\$30.00
FONTPACK Plus	\$25.00
geteWay 64 or 128 (Specify Version)	\$29.95
geoBASIC	\$20.00
geoCalc 64/128	\$40.00/\$45.00
geoChart	\$29.00
geoFAX	\$39.95
geoFile 64/128	\$40.00/\$45.00
geoMakeBoot (Makes Bootable copies)	\$12.95
geoProgrammer	\$45.00
geoPublish	\$40.00
GEOS 64 V2.0	\$44.00
GEOS 128 V2.0	\$49.00
geoSHELL V2.2 (CLI for GEOS)	\$24.95
International FONTPACK	\$25.00
Perfect Print LQ for GEOS (Laser-like output)	\$49.95
RUN GEOS Companion	\$20.00
RUN GEOS Power Pak I or II (Specify)	\$20.00

Books

Anatomy of the 1541	\$12.00
C-64 Science & Engineering	\$12.00
C128 Computer Aided Design	\$12.00
C128 BASIC Training Guide	\$12.00
Commodore 64 Tricks and Tips	\$12.00
GEOS Programmers Reference Guide	\$35.00
Graphics Book for the C-64	\$12.00
Hitchhiker's Guide to GEOS	\$35.00
Ideas for Use on Your C-64	\$12.00
Printer Book for the C64	\$12.00
Mapping the C64	\$12.00
Simple Internet	\$16.95

Scanning & Video

Handyscanner	\$249.00
Pegefox	\$139.00
Video Digitizer	\$189.00
Videofox	\$89.00

RAMLink Power-Backed RAM Disk

RAMLink Base Model (0MB, No RAMCard)	\$149.00
RAMLink w/1 MB RAMCard (Special)	\$199.00
RAMLink w/4 MB RAMCard (Special)	\$299.00
RAMCard RTC Option/Kit	\$10.00/\$19.00
RAMLink Battery Back-up (Optional)	\$24.95
Parallel Cable (RAMLink to HD)	\$14.95

MIDI & Sound

Digimaster	\$34.95
SiO Symphony Stereo Cartridge	\$44.95
Sonus 64 Sequencer, MIDI Interface, Cables	\$99.00
Sonus 128 Sequencer, MIOI Interface, Cables	\$99.00

Languages & Compilers

©BASIC 64 Compiler (Abacus)	\$17.00
©BASIC 128 Compiler (Abacus)	\$25.00
Blitz! 64 Compiler (Skyles)	\$30.00
Blitz! 128 Compiler (Skyles)	\$30.00
Buddy 64/128 Assembler	\$39.00
Cobol 64 (Abacus)	\$17.00
Fortran 64 (Abacus)	\$17.00
Pascal 64 (Abacus)	\$17.00
Power C 64 (Spinnaker)	\$14.00

Productivity

Cedapk 64 (Abacus)	\$22.00
Cadpak 128 (Abacus)	\$25.00
Chertpak 64 (Abacus)	\$17.00
Chertpak 128 (Abacus)	\$25.00
Delta Manager 64 (Timeworks)	\$16.00
I Paint v1.5 (128, 80-col., 64K VDC) (Living Proof)	\$39.00
I Port v1.54 (128, 80-col., 64K VDC) (Living Proof)	\$29.00
Personal Portfolio Manager (Abacus)	\$16.00
Pocket Writer 1 (64) (Digital Sol.)	\$35.00
Pocket Writer 2 (64/128) (Digital Sol.)	\$65.00
Pocket Writer 3 (64 or 128) (Digital Sol.)	\$70.00
Pocket Planner 2 or Pocket Filer 2 (Digital Sol.)	\$35.00
RUN Productivity Pak I, II, or III (Specify)	\$15.00
RUN Super Starter Pak 1541 or 1581	\$20.00
RUN Works	\$20.00
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SuperScript 64 (Precision)	\$15.00
SuperScript 128 (Precision)	\$20.00
Subarbase 64 Version 3.01 (Precision)	\$35.00
Superbase 128 Version 3.01 (Precision)	\$35.00
SwiftCalc 64 (Timeworks)	\$16.00
TWS 64 w/Speller (Busy Bee)	\$29.00
TWS 128 w/Speller (Busy Bee)	\$39.00
TWS Modules (HD/RL/Illustrator)	each \$5.00

Telecommunications

Aprotek MiniModem C-24 (C= ready, 2400 baud)	\$69.00
Aprotek MiniModem C (C= ready, 1200 baud)	\$50.00
Aprotek Com-Modem Adapter (for ext. modem)	\$19.00
Aprotek Com-Modem Adapter Cable	\$9.95
BOCA 2400 Baud Modem	\$69.00
BOCA 2400 w/SwiftLink and Cable	\$99.00
BOCA 14.4K bps FaxModem	\$199.00
BOCA 14.4K w/SwiftLink & Cable	\$159.00
EOCA V.34 28.8K bps FaxModem	\$199.00
EOCA V.34 w/SwiftLink & Cable	\$229.00
Commodore 1670 Modem (1200 baud)	\$14.95
Dialogue 128	\$29.00
SwiftLink RS-232 Cartridge (Up to 38.4K baud)	\$39.95
SwiftLink Modem Cable (DB9-DB25)	\$9.95

Games

Atomino	\$17.00
Ballistix	\$13.00
Blood Money	\$15.00
Chompli	\$10.00
Dey in the Life of Prehistoric Man	\$19.00
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Lazer Duel	\$14.95
Lions of the Universe	\$19.95
Meinframe	\$13.00
Menece	\$15.00
Navy Seal	\$10.00
Rings of Medusa	\$16.00
RUN C128 Funpak	\$10.00
RUN C64 Gemepak	\$10.00
Skete or Die	\$13.00
Slaterman	\$14.95
The Amazing Spider-Man	\$15.00
The President Is Missing!	\$10.00
The Three Stooges	\$10.00
Tie Break Tennis	\$16.00
Total Eclipse	\$10.00
Ultima V	\$17.00
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Wings of Circe	\$19.00
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CMD Repairs Computers & Drives!



JiffyDOS

Increase Speed Up to 1500% while retaining 100% compatibility

- Speeds up Loading, Saving, Verifying, Formatting and Reading/Writing of Program, Sequential, User and Relative files unlike cartridges which only speed up Loading and Saving of PRG files
- Built-in DOS Wedge plus 17 additional features including file copier, text dump, printer toggle, and redefinable function keys make using your computer easier and more convenient
- ROM upgrade installs easily into most computers and disk drives. Supports C-64, 64C, SX-64, C-128, 128-D, 1541, 1541C, 1541-II, 1571, 1581 and more.

FD Series

1.6 MB 3.5" Floppy Drives



The FD-2000 disk drives utilize today's latest 3.5 inch disk drive technology. FD-2000's support 800K (1581 style) and 1.6 MB (High Density) formats. Fast and reliable, they support 1541, 1571 and 1581 style partitions, Native Mode partitioning and can actually read and write 1581 disks. FD's feature built-in JiffyDOS, SWAP button and optional Real-Time Clock. High capacity, speed and compatibility make the FD right for every application, including GEOS.

RAMLink

Power-Backed Expandable REU

The fastest possible form of storage, RAMLink provides instant access to files and retains data while your computer is turned off. Easy to use and expandable up to 16 MB, RAMLink utilizes the same powerful operating system found in CMD Hard Drives. Unlike Commodore REU's which are compatible with less than 1% of commercial software, RAMLink supports more than 80% of the commercial titles. RAMLink also offers built-in JiffyDOS Kernel, SWAP feature, reset button, enable/disable switch, pass-thru port and RAM port for REU/GEORAM use. RAMLink offers maximum speed, expandability and compatibility with all types of software and hardware including GEOS.

HD Series

SCSI Hard Drive for the C-64/128



HD Series Hard Drives are available in capacities up to 1 GB, are fully partitionable, and can emulate 1541, 1571, & 1581 disks while Native partitions utilize MS-DOS-style subdirectories. HD's connect easily to the serial bus or parallel via RAMLink. Includes built-in JiffyDOS, SWAP feature and RTC. HD's offer superior compatibility with most commercial software including BBS, Productivity and GEOS. And with new pricing, HD Series drives offer the lowest cost per megabyte of any C64/128 storage device.

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Order Subtotal						
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\$20.00 to \$29.99	\$5.50	\$17.00	CALL	\$17.00	\$7.00	CALL
\$30.00 to \$59.99	\$6.50	\$19.00	CALL	\$19.00	\$9.00	CALL
\$60.00 to \$149.99	\$7.50	\$21.00	CALL	\$28.00	\$12.00	CALL
\$150.00 to \$299.99	\$10.00	\$25.00	CALL	\$35.00	\$20.00	CALL
\$300.00 to \$799.99	\$15.00	\$29.00	CALL	\$40.00	\$25.00	CALL
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